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Product datasheet for RC206182

ACSF3 (NM_174917) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACSF3 (NM_174917) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ACSF3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC206182 representing NM_174917
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTGCCCCATGTGGTGCTCACCTTCCGGCGCCTGGGCTGCGCCTTGGCGTCCTGCCGGCTGGCGCCTG
CGAGACACAGAGGAAGTGGTCTTCTGCACACAGCCCCAGTGGCCCGCTCGGACAGGAGCGCCCCGGTGTT
CACCCGTGCCCTGGCCTTTGGGGACAGAATCGCCCTGGTTGACCAGCACGGCCGCCACACGTACAGGGAG
CTTTATTCCCGCAGCCTTCGCCTGTCCCAGGAGATCTGCAGGCTCTGCGGGTGTGTCGGCGGGGACCTCC
GGGAGGAGAGGGTCTCCTTCCTATGCGCTAACGATGCCTCCTACGTCGTGGCCCAGTGGGCGTCATGGAT
GAGTGGCGGTGTGGCAGTCCCCCTCTACAGGAAGCATCCCGCGGCCCAGCTGGAGTATGTCATCTGCGAC
TCCCAGAGCTCTGTGGTCCTTGCCAGCCAGGAGTACCTGGAGCTCCTGAGCCCGGTGGTCAGGAAGCTGG
GGGTCCCGCTGCTGCCGCTCACACCAGCCATCTACACTGGAGCAGTAGAGGAACCGGCAGAGGTCCCGGT
CCCAGAGCAGGGATGGAGGAACAAGGGCGCCATGATCATCTACACCAGTGGGACCACGGGGAGGCCCAAG
GGCGTGCTGAGCACGCACCAAAACATCAGGGCTGTGGTGACCGGGCTGGTCCACAAGTGGGCATGGACCA
AAGACGACGTGATCCTCCACGTGCTCCCGCTGCACCACGTCCATGGTGTGGTCAACGCGCTGCTCTGTCC
TCTCTGGGTGGGAGCCACCTGTGTGATGATGCCTGAGTTCAGCCCTCAGCAGGTTTGGGAAAAGTTCTTA
AGTTCTGAAACGCCGCGGATCAATGTCTTTATGGCAGTGCCTACAATATACACCAAGCTGATGGAGTACT
ACGACAGGCATTTTACCCAGCCGCACGCCCAGGATTTCTTGCGTGCAGTTTGTGAAGAAAAAATTAGGCT
GATGGTCTCAGGCTCAGCTGCCCTGCCCCTCCCAGTGCTGGAGAAGTGGAAGAACATCACGGGCCACACC
CTGCTGGAGCGGTATGGCATGACCGAGATCGGCATGGCTCTGTCCGGGCCCCTGACCACTGCCGTGCGCC
TGCCAGGTTCCGTGGGGACCCCACTGCCTGGAGTACAGGTGCGCATTGTCTCAGAAAACCCACAGAGGGA
AGCCTGCTCCTACACCATCCACGCAGAGGGAGACGAGAGGGGGACCAAGGTGACCCCAGGGTTTGAAGAA
AAGGAGGGGGAGCTGCTGGTGAGGGGACCCTCCGTGTTTCGAGAATACTGGAATAAACCAGAAGAAACTA
AGAGTGCATTCACCCTGGATGGCTGGTTTAAGACAGGGGACACCGTGGTGTTTAAGGATGGCCAGTACTG
GATCCGAGGCCGGACCTCAGTGGACATCATCAAGACTGGAGGCTACAAGGTCAGCGCCCTGGAGGTGGAG
TGGCACCTGCTGGCCCACCCCAGCATCACAGATGTGGCTGTGATTGGAGTTCCGGATATGACATGGGGCC
AGCGGGTCACTGCTGTGGTGACCCTCCGAGAAGGACACTCACTGTCCCACAGGGAGCTCAAAGAGTGGGC
CAGAAATGTCCTGGCCCCGTACGCGGTGCCCTCGGAGCTGGTGCTGGTGGAGGAGATCCCGCGGAACCAG
ATGGGCAAGATTGACAAGAAGGCGCTCATCAGGCACTTCCACCCCTCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC206182 representing NM_174917
Red=Cloning site Green=Tags(s)

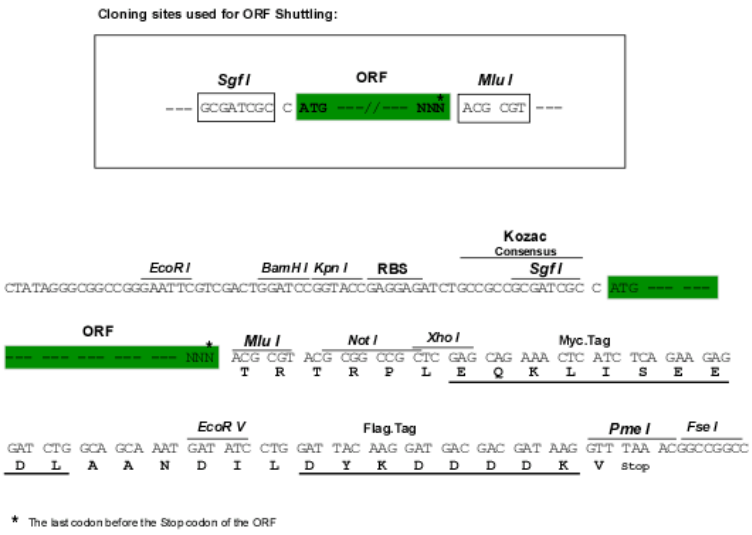
MLPHVVLTFRRLGCALASCRLAPARHRGSGLLHTAPVARSDRSAPVFTRALAFGDRIALVDQHGRHTYRE
LYSRSLRLSQEICRLCGCVGGDLREERVSFLCANDASYVVAQWASWMSGGVAVPLYRKHPAAQLEYVICD
SQSSVVLASQEYLELLSPVVRKLGVPLLPLTPAIYTGAVEEPAEVPVPEQGWRNKGAMIIYTSGTTGRPK
GVLSTHQNIRAVVTGLVHKWAWTKDDVILHVLPLHHVHGVVNALLCPLWVGATCVMMPEFSPQQVWEKFL
SSETPRINVFMAVPTIYTKLMEYYDRHFTQPHAQDFLRAVCEEKIRLMVSGSAALPLPVLEKWKNITGHT
LLERYGMTEIGMALSGPLTTAVRLPGSVGTPLPGVQVRIVSENPQREACSYTIHAEGDERGTKVTPGFEE
KEGELLVRGPSVFREYWNKPEETKSAFTLDGWFKTGDTVVFKDGQYWIRGRTSVDIIKTGGYKVSALEVE
WHLLAHPSITDVAVIGVPDMTWGQRVTAVVTLREGHSLSHRELKEWARNVLAPYAVPSELVLVEEIPRNQ
MGKIDKKALIRHFHPS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8100_c09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_174917

ORF Size: 1728 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_174917.5

RefSeq Size: 3747 bp

RefSeq ORF: 1731 bp

Locus ID: 197322

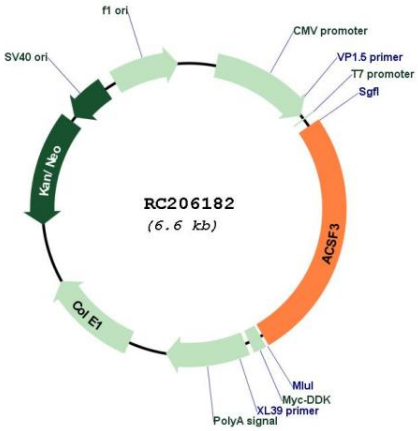
UniProt ID: Q4G176

Cytogenetics: 16q24.3

MW: 64.1 kDa

Gene Summary: This gene encodes a member of the acyl-CoA synthetase family of enzymes that activate fatty acids by catalyzing the formation of a thioester linkage between fatty acids and coenzyme A. The encoded protein is localized to mitochondria, has high specificity for malonate and methylmalonate and possesses malonyl-CoA synthetase activity. Mutations in this gene are a cause of combined malonic and methylmalonic aciduria. Alternatively spliced transcript variants have been observed for this gene. [provided by RefSeq, Sep 2013]

Product images:



Circular map for RC206182